

LIMA LOCOMOTIVE WORKS INCORPORATED

LIMA, OHIO, U. S. A.

GEARED LOCOMOTIVE

Class 42-2 SPECIAL

Dept. DRAWING ROOM

CONSTRUCTION ORDER No.	SHOP NUMBERS	DATE
386	3220	4-5-'23

386
(3220)

386.
42-2.
3220.

FORM LED 60

386
(3220)
42-2 SPECIAL

ADDITIONS AND CHANGES

ADDITIONS

ADDITIONS

CHANGES

DATE	Page	ITEMS	Check	DATE	Page	ITEMS	Check	DATE	Page	ITEMS	Check
4-10-23	20	30,33	mv					4-10-23	19	2-3-4-5	mv
4-13-23	5	12-13	21					4-10-23	20	47,48	5
4-25-23	14	47-48-50-51-52	24					4-13-23	5	8-9-10	22
4-26-23	27	7,10.	24					4-21-23	11	20	20
5-7-23	13	58-3-8 To 11	20					"	21	43,44	20
5-18-23	4	40	11					4-23-23	27	5	20
5-23-23	4	56	11					4-24-23	24	52-54-58-59	20
" " "	16	35	11					" " "	25	1	20
5-29-23	25	5	11					" " "	17	33 To 41	20
6-6-23	27	3-4	11					"	21	15,2	5
" " "	18	51	11					4-25-23	19	1-7 To 11	20
6-7-23	27	41-42	11					" " "	14	49	20
								4-27-28	8	56,58	20
								"	9	2,3,4,5,	20
								5-9-23	2	55-56-57	20
								5-10-23	26	46,47,48,	20
								"	27	8,9,	20
								5-14-23	18	3	20
								" " "	25	47	20
								5-16-23	19	1-7-8-9-10	20
								" " "	14	47 To 52	20
								" " "	4	40	20
								7-2-23	25	38	20

52
2202

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 14—BOILER DETAILS								
✓	1	Boiler Brace Rod Ends	2	11762 SET 2		117F202	Z	Z	Z	Z
✓	2	" " " "	2	310D208		310S150				
✓	3	" " " "	10	11754 SET 12		117F201				
✓	4	" " " "	4	310D165		310S104				
✓	5	" " " "								
✓	6	" " " Lugs	2	11762 SET 10		CO. 11762 SET 10	Z	Z	Z	Z
✓	7	" " " "	2	310D263		310S112				
✓	8	" " " "	4	310D165		310S29				
✓	9	" " " "								
✓	10	" " " Jaws	2	310D164		310S105	Z	Z	Z	Z
✓	11	" " " "	2	310D322		310S207				
✓	12	" " " "	14	310D148		310S64				
✓	13	" " " "	2	310D263		310S109				
✓	14	" " " "	4	310D265		310S186				
✓	15	" " " "								
✓	16	" Sling Stay								
✓	17	" " " "								
✓	18	" Throat Brace	6	11766 LINE 1		CO. 11766 LINE 1	—	—	—	—
✓	19	" " " "								
✓	20	" Crown Bars								
✓	21	" " Roof Irons								
✓	22	" Stay Bolt	221	4535 LINE 1		4535 LINE 1	Z	Z	Z	Z
✓	23	" " " "	288	" " 2		" " 2				
✓	24	" Radial Stay	48	11745		11745	Z	Z	Z	Z
✓	25	" " " "	96	11721 LINE 2		11721 LINE 2				
✓	26	" " " "								
✓	27	" Cross Stay								
✓	28	" Tee Bar	1	31" LONG	} 6"x1"x5 1/4"x1 1/4"					
✓	29	" " " "	2	19 1/2" "						
✓	30	" " " "	2	16 3/8" "						
✓	31	" " " "	2	7" "						
✓	32	" " " "								
✓	33	" " " "								
✓	34	" Mud Ring	1	143B5003						
✓	35	" Tube Sheet Ring						14-6		
✓	36	" " " Studs								
✓	37	" Smoke Box Ring	1	138A5000		14B5000				
✓	38	" " " "								
✓	39	" Tube (small)	127	2" O.D. .109" THICK 9'-0" LONG						
✓	40	" Flue (large)								
✓	41	" Combustion Tubes								
✓	42	" Tube Setting	1 SET	116325 TYPE 4						
✓	43	" Flue "								
✓	44	" Test Plate	1	420D449						
✓	45									
✓	46	GROUP 15—BOLTS AND NUTS								
✓	47									
✓	48	GROUP 18—BRACKETS								
✓	49	Air Gauge Bracket								
✓	50	Steam Gauge Bracket	1	182B5101 2						
✓	51	Bottom Bracket	1	184A5012			18-17			
✓	52	" " Caps	4	182A5021			—	18-5		
✓	53	" " Bearing—Top	4	182A5033			18-11			
✓	54	" " " —Bottom	4	182A5037			18-59			
✓	55	" " " Wedge	4	182A5016			18-60			
✓	56	" " Wedge Screw	4	182B5022			18-49			
✓	57	" " " " Nut	4	" "	BAR STOCK	87-F-12				
✓	58	" " " " Cap	4	182B5075		182B5075				
✓	59	Steam Bracket	1	183B5001			18-24.5			
✓	60	" " —Back								
✓	61	" " Brace	1	182A5066		182A5066				

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE EQUIPMENT								
P	1	BRAKE CYLINDER	1	203C 5007		—	20-36	—	—	—
	2	" "	—							
P	3	" " Head	2	202A 5094		—	20-60	—	—	—
	4	" " "	—							
P	5	" " Stuff. Box Gland	2	202A 5088		—	20-65	—	—	—
	6	" " " " "	—							
P	7	" Piston	2	202A 5113		—	20-47	—	—	—
	8	" "	—							
P	9	" " Rings, Mat'l For	4	653D 5002	Pot Pattern	—	65-25	—	—	—
P	10	" " " " "	2	3176 LINE 4	" "	—	65-107	—	—	—
	11	" " " " "	—		" "					
	12	" " " " "	—		" "					
P	13	" " Rod—Front	1	202B 5164	34 1/2"	202B 5164	—	—	—	—
P	14	" " " —Rear	1	202A 5164	36 1/2"	202A 5164	—	—	—	—
	15	" " "	—							
	16	" " " Jaw	—							
P	17	" Hollow Piston Rod	2	20 1/2" x 2 5/16" DIA. TURN FROM 2" PIPE		—				
	18	" " " "	—							
P	19	" Strut	2	202A 5122		—	20-68	—	—	—
	20	" " "	—							
	21	" Reservoir Blocks	—							
P	22	" " Support	2	202E 5025		—	—	20-111	—	—
	23	" " "	—							
	24	" " "	—							
	25	" " " Strap	—							
P	26	" Pump Bracket	1	202A 5101		—	20-141	—	—	—
	27	" " "	—							
	28	" Cyl. Lever Fulcrum	—							
	29	" Equipment	—	20MO 5022A	Except Plain Tender Brake cyl Heads					
P	30	" Valve	1	203A 5010	#5					
P	31	" " Base	1	202A 5138			20-38	—	—	—
P	32	" " Cap	1	202A 5137			20-39	—	—	—
P	33	" " Slide Valve	1	202A 5133			20-40	—	—	—
P	34	" " Stem	1	202A 5136	BAR STOCK		—	—	—	—
P	35	" " Handle	1	202A 5137			—	—	—	20-44
P	36	" " " Latch	1	202A 5134	BAR STOCK.		—	—	—	—
P	37	" " Stuffing Box	1	202A 5132	STICK BRASS		—	—	—	—
P	38	" " " " Nut	1	"	" "		—	—	—	—
P	39	" " " " Follower	1	"	" "		—	—	—	—
P	40	" " Bracket	1	To SUIT ERECT SHOP		To SUIT ERECT SHOP	—	—	—	—
	41	" " " Brace	—							
	42	" Distributing Valve Bracket	—							
P	43	" Relief Valve	2	202A 5140		—	—	—	20-71	—
P	44	" " " —Top	2	"	STICK BRASS	—	—	—	—	—
P	45	" " " —Base	2	"		—	—	—	20-73	—
	46	" —Frame Body	—							
P	47	" Lever—Frame	2	488B 5022		20E 5065	—	—	—	—
P	48	" " "	2	"		20M 5006	—	—	—	—
	49	" " "	—							
	50	" " "	—							
	51	" " "	—							
	52	" " "	—							
P	53	" " Fulcrum—Frame	2	B-13407 LINE 1		FIN SIZES 2" DIA. 7 1/2" LONG	—	—	—	—
P	54	" " " " SUPPORT	2	488B 5022		1" x 6" x 54"	—	—	—	—
	55	" " " "	—							
P	56	" " Guides	2	488B 5022		20D 5035	—	—	—	—
	57	" " " "	2	"		20W 5048	—	—	—	—
P	58	" " " "	2	"		20X 5048	—	—	—	—
	59	" " " "	—							
	60	" " " "	—							
	61	" " " "	—							

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Sketch No.	Cast Iron	Cast Steel	Brass
		GROUP 20—BRAKE (Cont.)								
	1	Brake Cylinder Bracket—Frame	2	488 B 5022	3" x 12" x 15" PLATE	—	—	—	—	—
	2	" " " "	—	—	—	—	—	—	—	—
	3	" Rods	2	488 B 5022		20 K 5018				
	4	" " " "	1	"	LENGTH TO SUIT E. S.	20 M 5054				
	5	" " " "	1	"	" " " "	20 N 5054				
	6	" " " "	—	—	—	—	—	—	—	—
	7	" " " "	—	—	—	—	—	—	—	—
	8	" " " "	—	—	—	—	—	—	—	—
	9	" " " "	—	—	—	—	—	—	—	—
	10	" Beam— Truck	4	202 A 5144	—	—	—	—	—	—
	11	" " Fulcrum	4	202 A 5130	—	—	—	—	—	—
	12	" " Safety Chain	8	—	—	Future K 5059	—	20-21	—	—
	13	" " Loop	—	—	—	20 L 5059	—	—	—	—
	14	" Hanger	16	—	—	—	—	—	—	—
	15	" " Lug	8	202 A 5072	—	20 H 5027	—	—	—	—
	16	" Heads	8	203 B 5009	—	—	—	20-632	—	—
	17	" Shoes	8	202 B 5103	PAT. 20-10-654 PURCHASED	—	—	20-23	—	—
	18	" Lever	2	9809 SETG	—	98 F 71	—	—	—	—
	19	" " " "	2	"	—	98 F 107	—	—	—	—
	20	" " " "	2	"	—	98 F 108	—	—	—	—
	21	" " " "	—	—	—	—	—	—	—	—
	22	" ROD PINS	4	202 C 5016	—	202 C 5016	—	—	—	—
	23	" " " "	8	202 N 5016	—	202 N 5016	—	—	—	—
	24	" Rod	2	202 K 5037	—	202 K 5037	—	—	—	—
	25	" " " "	2	937 A 5020	TRUCK CARD	20 D 5062	—	—	—	—
	26	" " " "	2	"	" "	20 W 5061	—	—	—	—
	27	" " " "	—	—	—	—	—	—	—	—
	28	Truck Bolster Lever Fulcrum	2	202 A 5054	—	—	—	—	—	—
	29	" " Stop Lug	—	—	—	—	—	20-625	—	—
	30	GROUP 21—BUMPERS								
	31	End Timber Arrangement—Front	1	B-10377 LINE 3	—	—	—	—	—	—
	32	" " " —Rear	1	B-10377 LINE 2	—	—	—	—	—	—
	33	" " Channels—Front	1	" " 3	12"-40" 102" LONG	—	—	—	—	—
	34	" " " —Rear	1	" " 2	—	—	—	—	—	—
	35	" " Drawhead Blocks	2	4" x 10 1/2" x 20"	—	—	—	—	—	—
	36	Push Pole Pocket	4	212 A 5002	—	—	—	21-7	—	—
	37									
	38									
	39	GROUP 22—CAB								
	40	Cab	1	223 A 5023	WOOD	—	—	—	—	—
	41	" Material Bill	—	223 B 5002	—	—	—	—	—	—
	42									
	43									
	44	GROUP 23—CAB DETAILS								
	45	Cab Arm Rest	2	11165 LINE 4	—	—	—	—	—	—
	46	" Joint Plate	4	TO SUIT MILL	PLATE	—	—	—	—	—
	47	" Strap	6	223 B 5002	—	111-F-46	—	—	—	—
	48	" Saddle Angle	1	"	—	111-F-222	—	—	—	—
	49	" " Plate	1	TO SUIT ERECT SHOP	PLATE	—	—	—	—	—
	50	" Sash Fixture	—	—	—	—	—	—	—	—
	51	" Storm Window	1	232 D 5012	—	—	—	—	—	—
	52	" " " "	1	232 E 5012	—	—	—	—	—	—
	53	" " " Adjusting Bar	2	232 A 5010	—	232 A 5010	—	—	—	—
	54	" " " " Plate	2	11140	—	—	—	—	—	—
	55	" Awning	—	—	—	—	—	—	—	23-1
	56	" Curtain - BACK	1	TO SUIT ERECT. SHOP	—	—	—	—	—	—
	57	" " Rod	—	—	—	—	—	—	—	—
	58	" Door Fixture	—	—	—	—	—	—	—	—
	59	" " " Clamp	2	232 A 5019	—	—	—	—	—	—
	60	" " " " Screw	2	232 A 5018	—	—	—	—	—	23-3
	61	" " " " Slide Bar	2	232 A 5023	—	4" x 3/4" x 28"	—	—	—	23-2

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS		CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mil Iron	
		GROUP 23—CAB DETAILS (Cont.)									
	1	Cab Door Fixture Rod	1	232A 5020		232A 5020	—	—	—	—	
	2	" Ventilator	—								
	3	" " Fixture	—								
	4	" " Handle	1	11145		111-F-30	Z	Z	Z	Z	
	5	" " " Hinge	1	"		111-F-31	Z	Z	Z	Z	
	6	" " " Latch	1	"		111-F-32	Z	Z	Z	Z	
	7	" " Rod	—								
	8	" Seat—Right	1	A 134 232 B 502X	} WOOD		Z	Z	Z	Z	
	9	" " —Left	1	232 A 134							
	10	" " ~~POST HINGE~~ Support	2	"		23A 147 X 8 X 22	Z	Z	Z	Z	
	11	" " Cushion	—								
	12	" " Post	2	232 A 134		23A 148	—	—	—	—	
	13	" " Hinge	4	6" STRAP HINGE PURCHASED			—	—	—	—	
	14	" " Rod	—								
	15	" Tool Box	1	A-11154 WOOD			—	—	—	—	
	16	" DOOR LOCKS	2	YALE NIGHT RIM LATCH. PURCHASED			—	—	—	—	
	17										
	18										
	19										
	20	GROUP 26—COCK AND VALVES									
	21	Air Sander Valve	—								
	22										
	23	Angle Valve	—								
	24	" " Cap	—								
	25	" " Stem	—								
	26	" " Gland	—								
	27	" " Nut	—								
	28										
	29	Ash Pan Cock	—								
	30										
	31	Bell Ringer Valve	—								
	32										
	33	Blower Valve	1	3/4" ANGLE - CRANE #1813			—	—	—	—	
	34	" " Cap	—								
	35	" " Stem	—								
	36	" " Gland	—								
	37	" " Nut	—								
	38	Blow Off Cock	1	1 1/2" CRANE			—	—	—	—	
	39	" " " Cap	—								
	40	" " " Plug	—								
	41	" " " Nut	—								
	42	" " " Washer	—								
	43	" " Extension	—								
	44	Blow-off Valve	—								
	45	Injector Starting Valve	2	1 1/2" CRANE #1811 & 1 3/4" C.P. UNION			—	—	—	—	
	46	" " " Cap	—								
	47	" " " Stem	—								
	48	" " " Gland	—								
	49	" " " Nut	—								
	50	Brake Stop Valve—Steam	1	3/4" #1811 CRANE & UNION FOR 3/4" IRON PIPE			—	—	—	—	
	51	" " " —Air	—								
	52	" " " —Inter.	—								
	53										
	54	Cinder Swipe Valve	—								
	55										
	56	Cylinder Cock	6	1/2" UNION BIBB			—	—	—	—	
	57	" " Nut	—								
	58	" " Shank	—								
	59	" " Valve	—								
	60	" " Cap	—								
	61										

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
P	1	Drip Valve Brake Exhaust Drain	1	1/2" GLOBE	} CRANE #1807					
P	2	" " Check Pipe "	2	1/2" "						
P	3	" " Exhaust "	1	1/2" "						
P	4	" " Steam Chest "	1	1/2" "						
P	5	" " Water Gauge "	1	1/2" "						
	6									
	7	Drip Cock—Brake Exhaust Drain								
	8	" " — " " —Air	2							
	9	" " —Check Pipe Drain								
P	10	" " —Fuel Sprinkler Drain	1	1/4" AIR COCK						
P	11	" " —Siphon Drain	1	3/8" "						
	12	" " —Oil Heater Drain								
	13	Generator Valve								
	14	" " Cap								
	15	" " Stem								
	16	" " Gland								
	17	" " Nut								
	18									
	19	Feed Cock								
	20	Heater Valve								
	21									
P	22	Lubricator Valve	1	3/4" ANGLE - CRANE #1811 & 3/4" C.P. UNION						
	23	" " Extension								
	24	Oil Burner Valves								
	25	" Heater "								
	26	" Tank Blow-Back Valve								
	27	" " Heater Valve								
	28	Oil Cock								
	29	" " Cap								
	30	" " Plug								
	31	" " Spring								
	32	" " Washer								
	33									
	34	Plug Cock—Injector Check								
	35	" " Cap								
	36	" " Plug								
	37	" " Nut								
	38	" " Washer								
	39									
	40	Port Cock								
	41									
P	42	Siphon Valve	1	1 1/2" ANGLE - MALE INLET #1811 CRANE						
	43									
P	44	Sprinkler Valve	1	1/2" GLOBE CRANE #1807						
	45	" " Cap								
	46	" " Stem								
	47	" " Gland								
	48	" " Nut								
	49									
	50									
P	51	Steam Gauge Cock	1	1/4" C.Y.L. COCK LEVER HANDLE & 3/8" C.P. UNION						
	52									
P	53	Steam Gauge Cock Extension	1	11464 STYLE 1 STICK BRASS						
	54									
	55	Tire Sprinkler Valve								
	56									
	57	Through Valve								
	58	" " Cap								
	59	" " Stem								
	60	" " Gland								
	61	" " Nut								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS		CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron	
		GROUP 27—COCKS AND VALVES (GAUGE, WATER AND SPECIAL)									
	1	Gauge Cock	3	3/4" NATHAN TYPE 272A1001 EXCEPT 3/4" PIPE THD.							
	2	" " Valve	Z								
	3	" " Cap									
	4	" " Stem									
	5	" " Gland									
	6	" " Nut									
	7										
	8										
	9	Gauge Cock Extension	—								
	10	" " Dripper	1	272A5006		—	27-38	—	—	—	
	11										
	12										
	13	WATER GAUGE	1	#9 Reflet 10-25-24 20139P 273A5001X 12" SIGHT EXCEPT FITTINGS.							
	14	" " Upper Fitting	1	3/4" LUNKENHEIMER							
	15	" " " " Cap	Z								
	16	" " " " Valve									
	17	" " " " Stem									
	18	" " " " Gland									
	19	" " " " Nut									
	20	" " " " Washer									
	21	" " Lower Fitting	1	3/4" LUNKENHEIMER							
	22	" " Cap	1	272-B-5013	R-11811 7-9-23						
	23	" " " " Valve									
	24	" " " " Stem	1	A-11413 LINE 2	STICK BRASS						
	25	" " " " Gland	Z								
	26	" " " " Nut									
	27	" " " " Washer									
	28	" " Cock Elbow	1	272B5003		—	—	—	27-9	—	
	29	" " Lamp Bracket	1	TO SUIT ERECT. SHOP	TO SUIT ERECT. SHOP	—	—	—	—	—	
	30	" " Marker	Z								
	31	" " " " Clamp									
	32	" " " "									
	33	Water Gauge Extension									
	34	Water Gauge Cock									
	35										
	36	GROUP 28—COCK RIGGING									
	37										
	38	Blow-off Cock Rigging	1 SET	A-11405		Z	—	Z	Z	Z	
	39	" " " Handle	1	732A5027		Z	73-6	Z	Z	Z	
	40	" " " Rod	1	3/8" PIPE TO SUIT ERECT. SHOP		Z	—	Z	Z	Z	
	41	" " " "									
	42	" " " " Jaw	1	A-11405		114F4	—	—	—	—	
	43	" " " Lever									
	44	" " " " Fulcrum									
	45										
	46	Cylinder Cock Rigging	1 SET	7329 LINE 1		—	—	Z	Z	Z	
	47	" " Eye Bolt	3	282A5005		282A5005	—	Z	Z	Z	
	48	" " Hand Lever HANDLE	1	282A5006		—	28-2	Z	Z	Z	
	49	" " " " Fulcrum									
	50	" " Rod	1	62 5/8 x 3/4" DIA. C.R. STEEL		—	—	—	—	—	
	51	" " " Lever	3	282A5004		—	—	—	—	28-1	
	52	" " " Jaws									
	53	" " Valve Lever									
	54	" " " " Connection	3	7329 LINE 1	3/16 x 5/8 x 16 1/4	—	—	—	—	—	
	55	GROUP 30—CROSSHEAD									
	56	Crosshead	3	302A5009	9/17/30 find Brass Mors	—	30-7	Z	Z	Z	
	57	" Shoe	6	302A5008				Z	Z	Z	
	58	" " Bolts	6	302A5009		Z		Z	Z	Z	
	59	" Pin	3	7800 SET 3		Z		Z	Z	Z	
	60	" Key	3	302A5034	CHROME VANADIUM	Z		Z	Z	Z	
	61										

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 31—CYLINDER								
P	1	CYLINDER	2 R	314 B 5006			31-25			
P	2	"	1 L	"			31-26			
	3	" Frame								
	4	" "								
	5	GROUP 32—CYLINDER DETAILS								
P	6	Cylinder Head	3	322 A 5031			32-73			
P	7	" " Casing	3	322 A 5035	PRESSED STEEL					
	8									
	9									
P	10	Steam Chest Cover	3	322 A 5002			32-64			
P	11	" " Casing	3	322 A 5038	PRESSED STEEL					
	12	Valve Chamber Head								
	13	" " "								
	14	" " Cover								
	15	" " Bushing								
	16									
	17									
	18	GROUP 34—CYL BY-PASS & RELIEF VAL								
P	19	Steam Chest Relief Valve	3	342 A 5000	STICK BRASS					
P	20	" " " " Base	3	3437 LINE 1	" "	Z	Z	Z		Z
P	21	" " " " Cap	3	"	" "				34-3	
	22								34-2	
	23									
	24									
	25									
	26	GROUP 35—DIE WORK								
	27									
	28									
	29									
	30									
	31									
	32									
	33	GROUP 36—DOME								
P	34	Dome	1	138 H 5000						
P	35	" Flange	1	362 A 5002						
P	36	" " Radius		27 1/2" RAD.						
P	37	" Cap	1	362 L 5007						
P	38	" Ring	1	362 A 5009						
P	39	" Casing—Base	1	362 A 5014	PRESSED STEEL					
	40	" " —Shell								
	41	" " —Top								
P	42	" Flow Bowl	1	362 A 5014	SHEET STEEL					
P	43	" " " Bracket	3	"		120 F 3				
	44									
	45									
	46									
	47	GROUP 37—DRAWGEAR F & B								
P	48	Coupler F.	1	373 A 5003						
P	49	" B.	1	"				37-2		
P	50	" Knuckles	3	372 L 5000				37-2		
	51	" "						37-307		
P	52	" Lock	2	372 A 5006						
P	53	" " Lifter	2	372 A 5007				37-12		
P	54	" Link	4	372 A 5004				37-13		
P	55	" Lever				372 A 5004				
P	56	Uncoupling Shaft	2	B-10377						
	57	" "				37-L-5009				
P	58	" " Bracket	6	B-10377						
	59	" " "				104-F-60				
	60	Buffer								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 37—DRAWGEAR (Cont.)	2	10406	11405R 11-20-26	Returned 37-18				
P	1	Drawhead	2	373 A5017	—	—	37-1	—	—	—
P	2	Draw Gear Brace	1	A-11047 LN12	—	A-11047 LINE12	—	~~37-73~~	—	—
P	3	" " "	1	A-11047 LN13	—	A-11047 LINE13	—	~~37-74~~	—	—
P	4	" " " Foot	2	A-11047 LN12	—	—	—	37-73	—	—
P	5	" " " Foot	2	" " 13	—	—	—	37-74	—	—
	6	" " Back								
	7	" " Shims								
	8	" " Pin								
	9	" " Frame—Front								
	10	" " " "								
	11	" " " —Rear								
	12	" " " "								
	13	" " Tie Plate								
	14	" " Friction Plate								
	15	" " Sliding Bar								
	16	" " " "								
	17	" " Connecting Rod								
	18	" " " " Pin								
	19	" " Yoke								
	20	" " " Block								
	21	" " " Followers								
	22	" " " "								
	23	" " " Binder Plate								
	24	" " Carrier Link								
	25	" " " Pin								
	26	" " " Plate								
	27	" Bar Guide								
	28	" " Pin								
	29	" " Carry Iron								
P	30	" " " " Bolt Liner				104-F-35	—	—	—	—
P	31	" Pin—Front	1	—	—	104-F-35	—	—	—	—
P	32	" " —Back	1	—	—	104 F 35	—	—	—	—
	33	Shackle Bar								
	34	" " Key								
	35	" " Gibs								
	36	" " Brace								
	37	" " " Pad								
	38	" " " Pin								
	39	" " Pin								
	40	Safety Link								
	41	" " Pins								
	42									
	43	GROUP 39—ECCENTRICS								
P	44	ECCENTRIC—No. 1 Cylinder	1	392 B5038			39-340			
P	45	" No. 3 Cylinder	1	"			39-340			
P	46	" No. 2 Cylinder—Top	1	392 B5034			39-338			
P	47	" No. 2 Cylinder—Bot.	1	"			39-339			
P	48	" Key	2	"	CHROME VANADIUM					
P	49	" Stud	2	"	MACH. STEEL					
P	50	ECCENTRIC STRAP Top	6	392 A5028			39-32			
P	51	" " Bottom	6	"			39-33			
P	52	" " Bolts	—							
P	53	" " ~~Liner~~ Bolts	12	392 A5028						
	54	" " Filler	—							
	55									
P	56	ECCENTRIC ROD	3	3900		39 B5004	—	—	—	—
P	57	" "	3	"		39 B5003	—	—	—	—
P	58	" " Pin	6	393 D5000			—	—	—	—
	59	" " "	—				—	—	—	—
P	60	" " Bolts	12	8509 SETA			—	—	—	—
	61	" " "	—				—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Sketch No.	Cast Iron	Cast Steel	Brass
		GROUP 42—ERECTING CARDS								
	1	ERECTING PLAN—Elevation	1	428 B 5042						
	2	GROUP 43—ERECTING CARDS								
	3	ERECTING PLAN—Sections	1	433 A 5044						
	4									
	5	GROUP 44—EXHAUST PIPE & NOZZLES								
	6	EXHAUST Drop Pipe	1	442 A 5029			44-548			
	7	" " Pipe Flange	1	12898			44-6			
	8	" Nozzle	1	442 A 5069			44-8			
	9	" "	1	442 B 5069			44-9			
	10	" "	1	442 C 5069			44-10			
	11	" " Tip								
	12	" Extension	1	12899 LINE 1			44-7			
	13	" Gland								
	14	" Reducer	1	442 A 5026			44-546			
	15	" " Gland	1	442 A 5027			44-545			
	16	" Pipe Elbow	1	442 A 5025			44-544			
	17	" " Joint Ring	1	792 U 5029			79-31			
	18	" "	1	442 E 5015 5" W.I. PIPE						
	19	" " Nipple	1	5" W.I. PIPE TO SUIT ERECT SHOP						
	20	GROUP 45—FIREDOOR AND FIREBRICK								
	21	FIRE BRICK								
	22	" " Arch Tube								
	23	" " " " Setting								
	24									
	25	FIRE DOOR	1	452 A 5004			45-10			
	26	" " Frame	1	452 A 5001			45-9			
	27	" " Liner	1	452 A 5002			45-11			
	28	" " Latch	1	452 A 5005						
	29	" " " Handle	1	"						
	30	" " " Guide	1	452 A 5003						
	31	" " Shield								
	32	" " Damper								
	33	" " " Bearing								
	34	" " " "								
	35	" " " Handle								
	36	" " " Thumb Nuts								
	37	" " Peep Hole Cover								
	38									
	39									
	40									
	41	GROUP 48—FRAME AND DETAILS								
	42	FRAME	1	488 B 5022	PLATE					
	43	" Boiler Saddle	2	482 A 5113	21 1/8" RAD.		48-171			
	44	" " "								
	45	" " Pad Clamp	2	482 A 5140						
	46	" " " "	2	482 C 5140						
	47	" " " "	2	482 D 5140						
	48	" " " "	2	482 E 5140						
	49	" Bolster Fill Blocks	4	482 B 5140						
	50	" Centre Plate	2	482 A 5111						
	51	" Side Bearing—Right	2	488 B 5022	3/8" x 5 1/2" x 14" PLATE		48-154			
	52	" " " —Left	2	"						
	53	" Spreader - FRONT	1	"						
	54	" Truss Pad - REAR	1	"						
	55	" SIDE BEARING BRACE	2	9675						
	56	" " Head					48-598			
	57	" " Post Head								
	58	" " " Socket								
	59	" " Rod Washers								
	60	Main Truss Rod—Right								
	61	" " " —Left								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 48—FRAME & DETAILS (Cont.)								
P	1	FRAME LINERS Truss Rod Ends	2	488 B 5022		2" x 5 1/2" x 8 1/2"				
P	2	" " "	2	"		2" x 5 1/2" x 9"				
P	3	" " "	2	"		2" x 6" x 9"				
P	4	" " "	2	"		5" x 3" x 5 1/2"				
P	5	" " Columns	4	"		5" x 5 1/2" x 8"				
P	6	" " "	1	"		8" x 5 1/2" x 9 1/2"				
P	7	" Post Guides	2	"		8" x 6" x 9"				
P	8	" BRACE	2	"		48 M 5013				
P	9	Frame Brace	1	"		48 R 5000				
P	10	" "	1	"		48 P 5000				
P	11	" "	1	"		48 S 5000				
P	12	" "	1	"		48 A 5036				
P	13	" " TO END TIMBER—FRONT	1	"		110-F-265				
P	14	" " " " "—REAR	1	"		48 K 5001				
P	15	Frame Pit Irons	3	"		48 F 5025				
P	16	" ANGLES	1	"		2" x 3" x 3" x 1/4" LONG				
P	17	" " "	1	"		2" x 3" x 3" - 13"				
P	18	" " "	1	"		2" x 3" x 3" - 11"				
P	19	" End Casting	4	"		2" x 3" x 3" - 6"				
P	20	" " Timber Brace	2	11043 SET 12				48-680		
P	21	" Angle	2	" 14				48-277		
P	22	" "	4	488 B 5022		4" x 3" x 3" - 10 1/2" LONG				
P	23	" "	8	"		5" x 6" x 6" - 13"				
P	24	" "	8	"		5" x 6" x 6" - 7 1/2"				
P	25	" "	8	"		8" x 3 1/2" x 6" - 15"				
P	26	" "	2	"		2" x 3" x 3" - 18 1/2"				
P	27	" " Smoke Box Brace Pad	2	13007 SET 1		2" x 3" x 3" - 16"				
P	28	EXPANSION PLATE	1	482 A 5143	Bolted to side of fire Box instead of to Mud Ring	48-15				
P	29	" " Angle	1 SET	"	PLATE	482 A 5143				
	30	FURNACE BEARER—Front								
	31	" " —Rear								
	32	" " Plate								
	33	" " Fill Blocks								
P	34	Boiler Pad—Right	2	482 A 5139			48-677			
P	35	" " —Left	2	"			48-677			
	36									
	37									
	38	GROUP 49—GAUGES, TEMPLATES & JIGS								
	39									
	40									
	41									
	42	GROUP 50—GUIDES & ATTACHMENTS								
P	43	Guide	6	502 A 5023			50-8			
	44									
	45									
	46	GROUP 51—GRATE ARRANGEMENT								
P	47	Grate Arrangement	1	11855 LN2						
	48	GROUP 52—GRATE DETAILS								
	49									
	50									
P	51	Grate Bars	5	522 A 5002			52-24			
	52	" "	7							
	53	" "								
	54	" Center Rail								
P	55	" Side "	1	522 A 5098			52-233			
P	56	" " "	1	"			52-234			
P	57	" SHAKER PINS Cover Plate	2	TO SUIT ERECT SHOP	5" BRVS. 2 1/2" LONG					
P	58	" " "	2	" " " "	3/4" 2" "					
P	59	" Shaker Pins	3	" " " "	3/4" 2" "					
	60	" " "								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 52—GRATE DETAILS (Cont.)								
	1	Grate Dead Plate	—							
	2	" " "	—							
P	3	" Drop "	1	522A5062		—	52-8			
P	4	" Dump Shaft	1	118175ET7		118F75	—	Z	Z	Z
	5	" " " Bearing	2	522A5092			52-155	Z	Z	Z
P	6	" " " "	—							
P	7	" " " Links	2	118175ET7		118F-70	—	—	—	—
P	8	" " " Lever	1	15020		118F74	—	—	—	—
	9	" " Lever	—							
P	10	" Shaker Shaft Bracket	1	A-11803		—	52-107	—	—	—
P	11	" " " "	1	"		—	52-108	—	—	—
	12	" " Lever	—							
P	13	" " Shaft	1	522B5008		522B5008	—	—	—	—
P	14	" " " "	—							
P	15	" " " Lever	1	522A5009		52A5012	—	—	—	—
P	16	" " " "	—							
P	17	" " " Hand Lever	1	11818LINE4		11818LN4	—	—	—	—
P	18	" " " " "	—							
P	19	" " Lever Connection	1	11855		118F58	—	—	—	—
P	20	" " " "	—							
P	21	" " Connection Bar	1	118375ET5		118F85	—	—	—	—
	22	" " " "	—							
	23	GROUP 53—H'NDRAIL & STEPS (En.&Tr)								
P	24	HAND RAIL	1SET	A-15887LINE3						
P	25	" " Bracket	2	10010		—	53-10	—	—	—
P	26	" " Balls	—							
P	27	" " Columns	2	A-11404			53-7	Z	Z	Z
P	28	" " " "	5	532A5034			53-1	Z	Z	Z
P	29	" " " "	2	420D265			53-13	Z	Z	Z
	30	" " " "	—							
	31	" " " Blocks	Z							
	32	" " " "	—							
P	33	" " Flanges	2	532F5034		—	53-5	Z	Z	Z
P	34	Cab Handle—Right	1	532E5002		532E5002	Z	Z	Z	Z
P	35	" " —Left	1	"		532E5002	Z	Z	Z	Z
	36	Coal Bunk Handle—Right	—							
	37	" " " —Left	—							
P	38	Tank Handle	2	15158LINE4		151-F-13	—	—	—	—
P	39	End Timber Handle	1	B-10377LN2		103F30	Z	Z	Z	Z
P	40	" " " "	1	" LINE3		103F30	Z	Z	Z	Z
P	41	" " " Bracket	2	" "		103F47	Z	Z	Z	Z
	42	" " " "	—							
	43									
	44									
	45	Bottom Bracket Step								
P	46	Cab Step - RIGHT	1	533A5010	PLATE	—	—	—	—	—
P	47	" " LEFT	1	533B5010	"	—	—	—	—	—
	48	" " "	—							
	49	" " "	—							
	50	" " Brace	—							
	51	" " " "	—							
	52	Cylinder Step	—							
	53	" Hood Step	—							
	54	Generator Step	—							
P	55	End Timber Step—Front	1SET	B-10377LINE3		103F18	—	—	—	—
P	56	" " " —Back	1	" " 2		103F18	—	—	—	—
	57	Headlight Step	—							
	58	Pilot Step	Z							
	59	" " "	—							
P	60	Sand Box Step	1	D-4141			53-14	—	—	—
P	61	" " " Bracket	1	533E5003		533E5003	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 54—HEADLIGHTS, LAMPS, PLATES, ETC.								
	1	Flag Socket	—							
	2	" "	—							
P	3	Headlight { Oil }	2	16" Stud. 3/19/29-2-14" Sunbeam Elec.						
P	4	Headlight Bracket	1 PAIR	10000 SET 6	PLATE					
	5	" Columns	—							
P	6	" Shelf—Front	1	10020	PLATE					
P	7	" " —Rear	1	2" x 18" x 24"	PLATE					
P	8	Generator Bracket	2	10003		100F3				
P	9	" Shelf	—	" "	1/4" x 15" x 18"					
P	10	Lamp	1	DAYTON #11-H	PURCHASED.	9/13/29 R. 23497.				
P	11	"	1	" #4-H						
P	12	" Bracket	1	A-11425 LINE 2		114-F-21				
	13	" "	—							
P	14	Number Plate	1	542A 5009			—	—	54-6	—
P	15	" " Stud	1	A-12969			—	—		
P	16	Builder's Card	2	542A 82			—	—	54-169	—
P	17	Name Plate	2	B-11138			54-4	—		
P	18	Patent Plate	1	542A 5006			—	—	54-183	—
	19	Property Plate								
	20	Superheater Patent Plate								
	21	Electrical Equipment								
	22									
	23									
	24	GROUP 55—INJECTORS & FEED, WATER								
P	25	Injectors	2	#7 EDNA-SCREW TYPE			—	—	—	—
P	26	" Bracket	2	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP	—	—	—	—
	27									
	28									
P	29									
P	30	Injector Check Valve	2	1 1/2" SWING FOR 180# PRESSURE — PURCHASED			—	—	—	—
	31	" " Flange	—				—	—	—	—
P	32	" Stop Valve	2	552D 5010 PURCHASED			—	—	—	—
	33	Feed Pipe Strainer	—							
P	34	" " Bracket	2	552A 5036			—	55-3	—	—
P	35	" " " Cap	2	"			—	55-4	—	—
	36	" Pipe Hanger								
	37	" Hose Connection								
	38	" " " Nuts								
	39	" " " "								
	40	" " " Nipples								
	41									
	42									
	43									
P	44	GROUP 57—LAGGING & JACKET								
P	45	Lagging (Boiler)	1 SET	57M.O. 5016			—	—	—	—
	46	" Panel								
	47	" "								
	48	" "								
	49	" Angle Iron								
	50	" " "								
P	51	Jacket (Boiler)	1 SET	POLISHED STEEL #22 B.W.G.			—	—	—	—
	52	" Band								
P	53	" " Angle	4	57C 5000		57C 5000	—	—	—	—
P	54	" Clamp	36	570 D 46			—	—	—	57-28
P	55	" "	6	572A 5004		572A 5004	—	—	—	—
P	56	Plug Casing	4	572A 6			—	—	—	57-4
	57	" "								
P	58	— Cover PRESSURE PLATE FRAME	1	420 D 476			—	—	57-60	—
	59	Cylinder Lagging								
	60	" Jacket								
	61	" Hood								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 58—LINK MOTION								
P	1	Link	3	583A5002				58-1		
	2	" —Top Half								
	3	" —Bottom Half								
P	4	" Saddle	3	583A5002		81-F-6				
P	5	" " Bolts	6	8511 SET II						
	6	" " "								
P	7	" Block	3	582A5014		FIN. SIZE 1 1/2 x 2 1/4 x 3"	Z	Z	Z	Z
P	8	" " Pin	3	8520		85F1				
P	9	" " Plates	6	582A5014 C.R. STEEL						
	10	" " Ends								
P	11	" Hanger	3	3069 LINE 1 582B5035-		81-F-7				
P	12	" " Pin	3	8513 SET 2						
	13									
	14	GROUP 59—OIL CUPS & LUBRICATION								
P	15	Lubricator	1	DETROIT 4 FEED #32 L COMPLETE WITH STEAM VALVE						
P	16	" Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP				
	17									
P	18	Bottom Bracket Oil Cup	4	592A5006			59-48			
P	19	" " " " Cap	4	"			59-49			
	20	" " " " Nut								
	21	" " " " Plug								
	22	" " " " Cover								
	23	" " " " "								
	24	" " " " Hinge Lugs								
P	25	" " " " " "								
	26	" " Grease Cup	4	#4 POWELL PLAIN STEEL—PURCHASED						
	27	" " " " Cap								
	28	" " " " Nut								
	29	" " " " Plug								
P	30	Crosshead Oil Cup	3	#3 SPRING TOP PURCHASED						
	31	" " " " Cap								
	32	" " " " Nut								
	33	Ecc. Strap Oil Cup								
	34	" " " " Cap								
	35	" " " " Nut								
	36	Gear Oil Cups								
	37	" " " " Covers								
P	38	Guide Oil Cup	6	#4 ELBOW SHANK—PURCHASED						
	39	" " " " Cap								
	40	" " " " Nut								
	41	Link Oil Cup								
	42	" " " " Cap								
	43	" " " " Nut								
P	44	Packing Oil Cup	3	592A5005					59-44	
P	45	" " " " Cap	3	"					59-45	
	46	" " " " Nut								
P	47	Rod Oil Cup	3	592A5006					59-46	
P	48	" " " " Cap	3	592A5007					59-47	
P	49	" " " " Plug	3	592A5008					59-48	
P	50	" " " " Latch	3	592A5009					59-49	
P	51	" " " " Spring	3	592A5010					59-50	
P	52	" " " " Base	3	592A5011					59-51	
	53	Tumb. Shaft Oil Cup								
	54	" " " " Cap								
	55	" " " " Nut								
P	56	Truck Box Oil Cup Cover—R. Box	4	TO SUIT TRUCK SHOP PLATE						
	57	" " " " " —L. Box								
	58	" " " " " Hinge Plate								
	59	Valve Stem Oil Cup								
P	60	Oil Can Shelf	1	592A5004			59-120			
	61	" " " " Bracket								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 60—OIL BURNER, ENGINE ONLY								
	1	Oil Burner	}							
	2	" " Arrangement								
	3	" " Support								
	4	" " Turret								
	5	" Cock Rod								
	6	" " " Jaw								
	7	" " " "								
	8	" " Shaft								
	9	" " " Arm								
	10	" " " Hanger								
	11	" " " Collar								
	12	" Pipe Support								
	13	" " "								
	14	" " Clamp								
	15	" " "								
	16	" Heater Support								
	17	" " Clamp								
	18	" Regulator Bracket	}							
	19	" " Shaft								
	20	" " " Arm								
	21	" " " Hanger								
	22	" " " Collar								
	23	" " " "								
	24	" " Quadrant								
	25	" " Lever								
	26	" " Latch								
	27	" " " Handle								
	28	" " " Spring								
	29	" " " Link								
	30	" " " Guide								
	31	" " " Pin								
	32	" " Lever Dowel								
	33	" " " Stop								
	34	" " " Thumb Nuts								
	35	" " " Adjusting Screw								
	36	" Damper Regulator Quadrant	}							
	37	" " " Handle								
	38	" " " Shaft								
	39	" " " " Bushing								
	40	" " " " Arm								
	41	" Heater								
	42	" " Stuffing Box								
	43	" " " " Follower								
	44	" " " " Nut								
	45									
	46									
	47									
	48									
	49									
	50	GROUP 61—PAINT'G, LETTER'G, NUM'G								
	51	Lettering								
	52	Numbering								
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—PIPE FITTINGS (Cont.)								
	1	Pipe Clamp	Z							
	2	" "								
	3	" "								
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14	GROUP 64—PIPING ARRANGEMENTS								
	15	Piping Arr'g. General	Z							
	16	" " Air Brake								
	17	" " Cooling Pipes								
	18	" " Bet. Eng. and Tender								
	19	" " Oil Heater								
	20	" " Sprinkler								
	21	" " Steam Heat								
	22									
	23									
	24									
	25									
	26	GROUP 65—PISTON AND ROD								
P	27	PISTON HEAD	3	652A5131	Pot Pattern		65-98	Z	Z	Z
P	28	" Packing Rings, Material For	6	653E5000			65-5			
P	29	" Rod	3	652A5097		FIN. SIZES 26" x 1 5/16 DIA.				
	30									
	31									
	32									
P	33	PISTON ROD PACKING	1 SET	GARLOCK	Pot Pattern					
P	34	Packing Rings	3	7736 SET 1						
P	35	" Spring Washer	3	7736 SET 1						
P	36	" Swab Cap	3	652A5095						
P	37	" Follower LOCK	3	652A5139						
P	38	" Stuffing Box	3	652A5139						
P	39	" " " Gland	3	652A5099						
P	40	" Vibrating Cups	3	652A5099						
P	41	" Spring	3	7764						
	42									
	43									
P	44	PACKING STUDS Piston Rod	12	7736 SET 1						
	45	GROUP 66—PLUGS								
P	46	Arch Tube Plug								
P	47	Back Head Plug (Prime)	2	1 7/8"-1 1/2" THDS. TAPER 3/4" IN 12" PURCHASED						
	48	Crown Plug								
	49	Ecc. Strap Plug								
P	50	Firebox Plug (Prime)	4	1 7/8"-1 1/2" THDS. TAPER 3/4" IN 12" PURCHASED						
	51	" "								
	52	Fusible Plug								
	53	Indicator Plug								
	54	Smoke Box Plug								
	55	Tube Sheet Plug								
P	56	Test Plug								
P	57	Waist Plug (Prime)	3	1 7/8"-1 1/2" THDS. TAPER 3/4" IN 12" PURCHASED						
	58	Washout Plug Valve								
	59	" " " Cap								
	60	" " " Flange								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 68—REVERSE LEVER								
P	1	Reverse Lever	1	683 A 5008		83-F-123	—	—	—	—
P	2	" " Arrangement	1	"			—	—	—	—
P	3	" " Handle	1	D-1315 LINE 3			—	—	68-3	—
P	4	" " Latch	1	3294 STYLE 1		83-F-49	—	—	—	—
P	5	" " " Guide	1	"		14" x 2" x 3 1/2"	—	—	—	—
P	6	" " " Rod	1	683 A 5008		83-F-133	—	—	—	—
P	7	" " " Details	—				—	—	—	—
P	8	" " Quadrant	1	682 A 5017		83-F-42	—	—	—	—
P	9	" " "	1	"		83-F-50	—	—	—	—
	10	" " " Plate	—							
	11	" " Foot Rest	—							
P	12	" " Shaft	1	682 H 5008		682 H 5008	—	—	—	—
P	13	" " " Length			13" ± To ±		—	—	—	—
	14	" " Arm	2							
	15	" " Fulcrum								
	16	" " " Bracket								
	17	" " " Pin								
P	18	" " Shaft Stand	1	5471 SET 10		83-F-69	—	—	—	—
P	19	" " Quadrant Bracket	1	488 B 5022		68C 5007	—	—	—	—
P	20	" " " "	1	"		109-F-18	—	—	—	—
	21	" " " "								
	22									
	23									
	24									
	25									
	26	GROUP 69—REVERSE SHAFT								
P	27	TUMBLING SHAFT	1	692 B 5002	ANGLE "A" 4 1/2°	69C 5001				
	28	" " Arm	—							
	29	" " Collar	—							
P	30	" " Box	3	692 A 5001			69-18	—	—	—
P	31	" " " Cap	3	"			69-5	—	—	—
P	32	" " Coupling Ball	2	8316 SET 2			69-2	—	—	—
P	33	" " " Socket	2	"			69-3	—	—	—
P	34	" " " Cap	2	"			69-3	—	—	—
	35	" " " Sleeve								
	36	" " " Conn.								
	37	" " " "								
	38	" " " Nut								
	39									
	40	GROUP 71—RUNNING BOARDS								
P	41	RUNNING BOARD	1 SET	717 A 5009						
	42	" "	—							
P	43	" " Bracket	2	712 A 5030	PLATE					
P	44	" " "	1	712 B 5030	"					
P	45	" " "	1	712 C 5030	"					
P	46	" " "	2	712 D 5030	"					
P	47	" " " ON BOILER	1	712 Y 5004		712 Y 5004				
P	48	" " " Engine	2	488 B 5022		71 N 5007				
P	49	" " " "	2	"		71 H 5011				
P	50	" " " "	1	"		71 J 5011				
P	51	" " " "	2	"		1/2" x 1/2" x 3/32"				
	52	" " " "								
	53	" " " "								
	54	" " " "								
	55	" " " Tender								
	56	" " " "								
	57	" " " "								
	58	" " " "								
	59	" " " "								
	60	" " " "								
	61	" " " "								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 72—RODS								
P	1	Connecting Rods	3	723 ~~B~~ ^{AB} 5004		89 F 13				
P	2	" " Brass, Xhd End	3	722 ~~A~~ ^B 5036	BABBITTED				72-10	
P	3	" " " " "	3	" "	"				72-10	
P	4	" " " Crank "	3	722 ~~A~~ ^{AB} 5006	25099 ~~B~~ not Babbitted				72-46	
P	5	" " " " "	3	" "	"				72-46	
	6									
P	7	Connecting Rod Strap	3	~~723A5004~~ ^{AB} 722 ~~A~~ ^B 5089		~~89 F 13~~ ^B 722 ~~A~~ ^B 5089				
P	8	" " Wedge—Top	3	723 ~~B~~ ^{AB} 5004		FIN. SIZES 1 5/8" x 2" x 2 1/2"				
P	9	" " " —Bottom	3	" "		FIN. SIZES 1 3/4" x 2 3/4" x 3"				
P	10	" " Key—Top	3	" "		89 F 17				
	11	" " " —Bottom	—							
	12	" " Wedge Liner	—							
	13									
	14									
	15									
	16	GROUP 73—SAND BOX								
P	17	Sand Box—Front	1	733A5000						
P	18	" " Base	1	12247 LINE 4			73-69			
P	19	" " Top	1	733A5000						
P	20	" " Lid	1	732B5000			73-31			
P	21	" " Valve	2	732A5022			73-4			
P	22	" " Lever—Short	1	733A5000			73-20			
P	23	" " " —Long	1	"		122 F 23				
P	24	" " Rod Handle	1	732A5027			73-6			
P	25	" " Rigging	2	733A5000		1/2" x 1 1/4" x 19 3/4"				
P	26	" " Rod	1	3/8" PIPE TO SUIT ERECT. SHOP						
	27	Air Sander								
	28	" " Nozzle								
	29	Sand Box—Flue								
	30	" " Funnel								
	31	" " Scoop								
P	32	SAND BOX—Back	1	732A5032						
P	33	Back Sand Box Arrangement	1	12252 LINE 6						
P	34	" " " Base	2	732B5023			73-13			
P	35	" " " Top	2	732A5024			73-12			
P	36	" " " Covers	2	"			73-314			
P	37	" " " Valve	2	3257			73-10			
P	38	" " " Shaft Hanger	3	732A5026			73-7			
P	39	" " " " " Caps	3	"			73-8			
P	40	" " " Hand Lever	1	12222		122 F 35				
P	41	" " " " " Fulcrum	1	"		122 F 50				
P	42	" " " " " Rod	1	"		122 F 55				
	43	" " " Horiz. Lever								
	44	" " " " " Fulcrum								
	45	" " " " " Guide								
	46	" " " Rod Jaws								
	47	" " " " " "								
P	48	" " " Shaft	1	12267 LINE 14	Check for future length not correct.	12267 LINE 14				
P	49	" " " " Lever	2	12264 " 1		122 F 25				
	50	" " " " "	—							
P	51	" " " Valve Lever	2	12266 LINE 1		122 F 30				
P	52	" " " " Rod	1	12252		122 F 24				
	53	" " " " "	—							
P	54	" " " " " Conn.	1	12265 LINE 2		122 F 81				
	55	" " " Rod Bell Crank	—							
	56	" " " " " Fulcrum	—							
P	57	" " " Brace	2	—		122 F 87				
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
8 8 8		GROUP 74—SHAFTS								
	1	COUPLING RING —Front	2	743A5010						
	2	" " Half "	4	743B5010						
	3	" " Bushing "	8	742A5035						
	4	" " Oil Cellar "	8	742A5034						
	5	" " —No. 2	]							
	6	" " Half "								
	7	" " Bushing "								
	8	" " Oil Cellar "								
	9	" " —No. 3								
8 8 8	10	" " Half "	]							
	11	" " Bushing "								
	12	" " Oil Cellar "								
	13	" " —Rear		2	743A5010					
	14	" " Half "		4	743B5010					
	15	" " Bushing "		8	742A5035					
	16	" " Oil Cellar "		8	742A5034					
	17									
8 0 m	18	CRANK SHAFT	1	745A5007 #68		157F-16	—	—	—	—
	19	Counterbalance	]							
	20	" " Weight								
	21	" " "								
	22	" " "								
	23	" " Yoke								
	24	" " "								
	25	Horn Coupling	2	742B5271	Rear 4 3/4" 201570 1-21-26	—	74-201	—	—	
	26	" " "	—							
	27	" " Key	2	—	—	90F31				
28										
29										
m 8 0	30	LINE SHAFT—Front Truck	1	743A5065		FIN. SIZES 8 1/8 X 4 1/8 DIA.	—	—	—	—
	31	" " —2nd "	—				—	—	—	—
	32	" " —3rd "	—				—	—	—	—
	33	" " —Rear "	1	743A5065		FIN. SIZES 7 3/4 X 4 1/8 DIA.	—	—	—	—
	34	" " Bearings, Outside—Front	2	742C5136			—	—	74-809	—
	35	" " " Inside "	2	"			—	—	74-809	—
	36	" " " Outside—2nd	]				—	—	—	—
	37	" " " Inside "					—	—	—	—
	38	" " " Outside—3rd					—	—	—	—
	39	" " " Inside "					—	—	—	—
	40	" " " Outside—R'r	2	742C5136			—	—	74-809	—
	41	" " " Inside "	2	"			—	—	74-809	—
	42	" " " Plate—Front	]				—	—	—	—
	43	" " " " —2nd					—	—	—	—
	44	" " " " —3rd					—	—	—	—
	45	" " " " —Rear					—	—	—	—
8 8 0	46	" " Collar	4	742S5192			Z	74-206	Z	Z
	47	" " "	3	742B5190				74-446 466		
	48	" " "	1	742B5191				74-334		
	49	" " "								
	50	" " "	]							
	51	" " "								
	52	" " "								
	53	" " "								
	54	" " "								
	55	" " Coupling	2	742A5185			—	74-717	—	—
	56	" " "	]							
	57	" " "								
	58	" " "								
	59	" " "								
	60	" " "								
	61	" " "								

9/17/30
Lead Brass
2 3/16" Bore

FIN. SIZES
8 1/8 X 4 1/8 DIA.

FIN. SIZES
7 3/4 X 4 1/8 DIA.

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS (Cont.)								
	1	LINE SHAFT Coupling Key	—							
P	2	" " COLLAR "	#	~~743A5053~~		~~FINISHES 84" X 12" X 16"~~	—	—	—	—
	3	" " " "	Z	742A5106	24808R 1-22-30			74-204		
P	4	" " Collar "	Z	742A5107	15925R 11-4-27			74-70		
	5	" " Pinion	4	~~742A5106~~				~~74-204~~		
	6	" " " "	Z							
	7	" " " "	Z							
	8	" " " "	Z							
P	9	" " Washer	4 PR.	742D5149	—	—	74-127	—	—	—
	10	" " " "	Z							
	11	" " " "	Z	743B5046	24808R 1-22-30			74-203-D		
	12	" " " "	Z	~~743B5046~~	~~15925R 11-4-27~~			~~74-203-D~~		
C	13	GEAR RIM	4	~~743B5046~~				~~74-203-D~~		
P	14	" " Bolt	28	742D5252	—	—	—	—	—	—
P	15	" " Key	8/16	8824SET4	—	—	—	—	—	—
P	16	SQUARE SHAFT—Front	1	742F5250		742F5250	Z	Z	Z	Z
P	17	" " —Back	1	742J5250		742J5250	Z	Z	Z	Z
	18	" " —Center	Z							
	19	" " " "	Z							
P	20	" " Sleeve	2	742B5110	—	—	—	74-202	—	—
	21	" " " "	Z							
	22	" " " "	Z							
	23	" " " "	Z							
	24	" " " "	Z							
	25	" " " "	Z							
	26	GROUP 75—SMOKE BOX AND STACK								
P	27	SMOKE BOX ARRANGEMENT	1	A-12998		—	Z	Z	Z	Z
P	28	" " Deflecting Plate	1/SET	"	PLATE	—	Z	Z	Z	Z
P	29	Deflecting Plate Angle	1"	"		A-12998	Z	Z	Z	Z
P	30	Draft Pipe	1"	"		—	Z	Z	Z	Z
P	31	" " Hanger	2	"		129F5	Z	Z	Z	Z
P	32	" " " "	2	"		129F6	Z	Z	Z	Z
	33	" " " "	—							
P	34	" " " Key Bolt	6	A-12998		75A5030	Z	Z	Z	Z
P	35	Netting Frame	2	"		129F4	Z	Z	Z	Z
P	36	" Ring	1	"		129F7	Z	Z	Z	Z
	37	Cinder Pocket	—							
P	38	" Pot Base	1	753B5027		Z	75-4	Z	Z	Z
P	39	" " Lid	1	752A5042		Z	75-8	Z	Z	Z
P	40	" " Hand Wheel	1	752A5043		Z	75-9	Z	Z	Z
P	41	" " Yoke	1	752A5041		129F55	—	Z	Z	Z
	42	Cleaning Hole	—							
P	43	" " Flange	1/2	752B5054		—	75-62 17	—	—	—
P	44	" " Cover	1/2	752A5055 5057		—	75-66 18	—	—	—
	45	Peep " Flange	—							
	46	" " Cover	—							
P	47	SMOKE BOX Brace—Right	1	TO SUIT ERECT SHOP		130F26	Z	—	Z	Z
P	48	" " " —Left	1	" " " "		130F26	Z	—	Z	Z
P	49	" " " Pad	2	752B5047		Z	75-10	Z	Z	Z
P	50	" " " Pin	2	13002 STYLE 2		Z	—	Z	Z	Z
P	51	" " " Washer	2	13003 " 2		Z	—	Z	Z	Z
P	52	SMOKE BOX FRONT	1	A-12917		Z	75-139	Z	Z	Z
P	53	" " " Door	1	A-12927		Z	75-46	Z	Z	Z
P	54	" " " Liner	2	A-12982		Z	75-138	Z	Z	Z
P	55	" " Door Liner	1	A-12927		Z	75-48	Z	Z	Z
P	56	" " " Buttons	9	752B5058		Z	75-80	Z	Z	Z
	57	" " " Hinge	Z							
	58	" " " " "	Z							
	59	" " " " Lug	Z							
	60	" " " " " "	Z							
	61	" " " " " "	Z							

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX & STACK (Cont.)								
	1	SMOKE STACK (Type <i>TAPER</i>)	1	752A5001	DRILL FOR HOOD	—	75-370	—	—	—
	2	Smoke Stack Base <i>RTH</i>	17	753-C-5023	8-5-26	29887	—	—	—	—
	3	" " Extension <i>Base</i>	1	752A5064			75-50			
	4	" " Top								
	5	" " Cone	1	752A5084			75-2			
	6	" " " Bracket <i>Studs</i>	4	753-C-5023		1 1/4" x 16"				
	7	" " " Brace	4	"		75-C-5020				
	8	" " " "	4	"		75-D-5043				
	9	" " Cleaning Hole	2	752A5051			75-52			
	10	" " " " Cap	2	752A5044			75-53			
	11	" " Hood	1	A-12G03 LINE 7	NETTING					
	12	" " Ring	1	"						
	13	" " " Angle Ring	1	753-C-5023		12G-F-138	—	—	—	—
	14	" " " Angle	1	A-12G03 LINE 7		75-C-5025				
	15	" " Saddle	1	752B5033		12G-F-93	—	—	—	—
	16	" " Beading Ring	2	753-C-5023		75-E-5009	75-34	—	—	—
	17									
	18	GROUP 76—SPRINGS								
	19	Truck Bolster Springs	40	5003. 762A5002	9/18/24 R.23715. PURCHASED					
	20	" Pedestal "	—							
	21	Drawgear Springs	—							
	22									
	23									
	24									
	25									
	26	GRP 78—STE. GAUGE SAF. VAL. & TUR.								
	27	Steam Gauge	1	5 1/2" ASHCROFT BRASS RING						
	28									
	29	Safety Valve	2	2" CONSOLIDATED 180# PRESSURE						
	30	" "								
	31	" " Elbow								
	32	" " Turret								
	33	" " " Bushing								
	34	" " " Ring								
	35	" " " Casing								
	36	" " " Flow-Bowl								
	37	TURRET	1	783R5006						
	38	" Ball Joint	1	A-11424 SET 1					78-1	
	39	" Stuffing Box	1	782A5005					78-5	
	40	" " " Nut	1	"	STICK BRASS				78-2	
	41	" " " Follower	—							
	42	" Master Valve	1	782A5005					78-3	
	43	" " " Nut	1	"	STICK BRASS					
	44	" " " Stem	1	"	" "					
	45	" " " Hand Wheel	1	"			27-14			
	46	" Bonnet Ring	1	"					78-4	
	47	Turret (Auxiliary)	—							
	48	GROUP 79—STEAM PIPES & TEE HEADS								
	49	STEAM PIPES	1	793A5005			79-664			
	50	" " Slip Joint								
	51	" " " " Gland								
	52	" " Elbow								
	53	" " " Support								
	54	" " Tee Head								
	55	" " Joint Ring—Top	1	792E5042			79-662			
	56	" " " " —Bottom	1	792F5042			79-662			
	57	" " " " "								
	58	" " " " Gland								
	59	" " Casing								
	60	" " Flange								
	61	" " Nipple								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 81—SUPERHEATER								
	1	Superheater Arrangement								
	2	" Header								
	3	" " Support								
	4	" " "								
	5	" Return Bends								
	6	" " "								
	7	" Tube End								
	8	" " Joint								
	9	" " Clamp								
	10	" " " Washer								
	11	" " " Bolt								
	12	" " " " Washer								
	13	" " Support								
	14	" " Bands								
	15	" Unit								
	16	" Damper								
	17	" " Cyl.								
	18	" " " Arm								
	19	" " " Support								
	20	" " Arm								
	21	" " Rod								
	22	" " Shaft								
	23	" " "								
	24	" " " Bearing								
	25	" " " "								
	26	" " " "								
	27	" " " "								
	28	" " " Link								
	29	" " Counterweight								
	30	" " " Arm								
	31	" " Hinge								
	32	" " Flag								
	33	" Deflector Handle								
	34	" " Clamp								
	35	" " Plate Stud								
	36	GROUP 82—TANK VALVES								
P	37	TANK Valve—Water	2	823A5006					82-22	
P	38	" " Body	2	"			82-23			
P	39	" " " Plate	2	"			82-19			
P	40	" " Bottom Plate	2	"			82-20			
P	41	" " Top "	2	"			82-18			
P	42	" " Cap	2	"			82-16			
P	43	" " Seat	2	"					82-21	
P	44	" " Stem	2	A-151475TYPE1	151 F 2					
P	45	" " " Nut	2	823A5006			82-17			
P	46	" " " Handle	2	"			82-14			
P	47	" " " Clamp Nut	2	"			82-15			
P	48	" " Strainer	2	"						
	49	Siphon Arrangement								
P	50	Siphon	1	822A5013			82-84			
P	51	" Tube	1	"			82-46			
P	52	" Pipe Flange	1	11305LINE2			82-41			
P	53	" Goose Neck	1	1475TYPE1			82-26			
P	54	" Stand Pipe	1	822A5020	3" PIPE					
P	55	" " " Flange	1	"			82-37			
P	56	" " " "	1	"			82-38			
P	57	" Hose Strainer BRACKET	2	488B5022		82A5004				
P	58	" " " Body	1	A-15173			82-78			
P	59	" " " Cap	1	"			82-79			
P	60	" " Nipple	2	11329LINE3	3" PIPE					
P	61	" " Bracket	5			113 F 17				

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VALVES (Cont.)								
	1	Tank Valve—Oil	7							
	2	“ “ Seat								
	3	“ “ Cap Plate								
	4	“ “ Plate								
	5	“ “ Rod								
	6	“ “ Screen								
	7	“ “ Nut								
	8	“ “ Flange								
	9	“ “ Lever								
	10	“ “ Stem								
	11	“ “ “ End								
	12	“ “ “ Stuffing Box								
	13	“ “ “ “ “ Nut								
	14	“ “ “ “ “ Gland	7							
	15	“ “ “ “ “ Follower								
	16	“ Cock								
	17	“ Cooler Cock								
	18	Tank Measuring Rod								
	19	“ “ “ Flange								
	20	“ “ “ Handle								
	21	“ “ “ Guard								
	22	“ “ “ “								
	23									
	24	GROUP 83—TANK—ENGINE								
	25	Fuel Bunk	7							
	26	“ “ Rack								
	27	“ “ Tie Rod								
	28	“ “ Straps								
	29	“ “ Lugs								
	30	“ “ Gate								
	31									
	32									
	33	GROUP 85—TENDER FRAME								
	34	Tender Frame	7							
	35	“ “ Angle								
	36	“ “ “								
	37	“ “ “								
	38	“ “ “								
	39	“ “ Bolster—Top								
	40	“ “ “ —Bot.								
	41	“ “ Brace								
	42	“ “ “								
	43	“ “ “								
	44	Frame Centre Plate								
	45	“ End Casting								
	46	“ “ Timber Brace								
	47	“ Side Bearings								
	48	GROUP 87—TENDER DECK, TOOL BOX								
	49	Tool Box								
	50									
	51	GROUP 88—TENDER TANK								
	52	Tank—Water	1 SET							
	53	“ Material Bill								
	54	“ Funnel								
	55	“ “ Lid								
	56	“ “ ~~Hinge~~ ANGLE								
	57	“ “ Handle								
	58	“ “ ~~Hinge~~ ANGLE								
	59	“ “ “ Pin “								
	60	“ Lug ~~Angle~~								
	61	“ Lug								

88A5002

88M05001-A

882B5002

882A5003

88A5003

151F35

88A5002

151F112

4705137

4705138

PLATE

Z

7

7

7

7

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes		Cast Iron	Cast Steel	Brass	Mal Iron
		GROUP 88—TENDER TANK (Cont.)								
P	1	Tank—Headlight Bracket	2	883 M 5002		100-F-10	Z	Z	Z	Z
P	2	" —Ladder	1 Pr.	A-15102 LINE 8		151-F-80	Z	Z	Z	Z
P	3	" "				151-F-80				
P	4	" —Coal Gate								
P	5	" —Fuel Rack	1	TO SUIT ERECT SHOP	WOOD					
P	6	" —Shoveling Sheet	2	883 M 5002		88 A 5010	—	—	—	—
	7	" " "	1	3/16 x 54" x 120"						
	8	Tank—Oil								
	9	" Material Bill								
	10	" Funnel								
	11	" " Cover								
	12	" " " Eye Bolts								
	13	" " " Tail Nuts								
	14	" " " Handle								
	15	" " Lug								
	16	" " "								
	17	" " Ring								
	18	" " Angle								
	19	" Lug								
	20	" "								
	21	GROUP 91—THROTTLE & DRY PIPE								
P	22	Throttle Arrangement	1	914 A 5008						
P	23	Throttle Valve	1	B-12124 SET 4			91-7	—	—	—
P	24	" Case	1	913 A 5022			91-468	—	—	—
P	25	" Valve Stem	1	912 B 5052		912 B 5052	—	—	—	—
	26	" " " Stop								
P	27	" Pipe Elbow	1	913 A 5022			91-469	—	—	—
P	28	" Pipe Flange	1	912 A 5068			—	91-471	—	—
P	29	" CASE Joint Ring	1	913 A 5022			79-661	—	—	—
P	30	" Bell Crank	1	B-12161		B-12161				
P	31	" " " Fulcrum	1	912 C 5006		912 C 5006				
P	32	" Pipe Support	2	914 A 5008	TO SUIT ERECT SHOP					
P	33	" " Yoke	1	"		91 A 5026				
P	34	" " Bracket	1	"		91 A 5027				
P	35	" " " LEFT	1	"		91 A 5027				
P	36	" " " RIGHT	1	"						
P	37	" Stuffing Box	1	912 A 5049			91-16	Z	—	Z
P	38	" " " Gland	1	"			91-17		—	
P	39	" " " Flange	1	3834			—	Z	91-152	Z
	40	" Baffle Plate								
	41	" " " Handle								
	42	" " " Angle								
	43	" " " Studs								
	44	" " " Nuts								
	45	" " " Keys								
P	46	THROTTLE LEVER	1	913 H 5019		121-F-133	—	—	—	—
P	47	Throttle Lever Handle	1	D-1315		FIN. SIZES 1 1/16 x 2 3/16 x 4 1/16	Z	Z	68-3	Z
P	48	" " Latch	1	913 H 5019		91 L 5028	Z	Z		Z
P	49	" " " Rod	1	"		121-F-135	Z	Z		Z
P	50	" " Links	2	"						
P	51	" " Quadrant	1	"						
P	52	" " Fulcrum	1	B-12103 LINE 1		121-F-20	Z	Z		91-3
P	53	" " Guide	—							
P	54	" " Rod	1	913 H 5019		121-F-21	Z	Z		Z
P	55	" " Support	1	"		121-F-75				
	56	DRY PIPE								
	57	" " Ring								
	58	" " Support								
	59	" " "								
	60	" " Yoke								
	61	" " Elbow								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 93—TRUCKS & DETAILS (Cont.)								
P	1	Truck Crosstie Bar—Top	2	932A5311		932A5311				
P	2	" " " "	2	932B5311		932B5311				
P	3	" " " " Angles	2	932A5311		932A5311				
P	4	" " " " "	2	932B5311		932B5311				
P	5	" " " —Bottom	4	932K5367		932K5367				
	6	" " " "		XXXXXXXXXX		XXXXXXXXXX				
P	7	" " " " Fill Block	8	932K5367		1/2"x3"x5"				
P	8	" " " —Center	2	932E5189		932E5189				
P	9	" " " "	2	932E5189		932E5189				
P	10	" Diagonal Braces	4 PR	937A5020	(8)	93E5000				
	11	" " "								
	12	" " "								
	13	" " "								
P	14	" Equalizer	2	932A5191		932A5191				
P	15	" Gear Cover	2	932A5409	PLATE					
P	16	" " "	2	932B5409						
P	17	" " "	2	932A5410						
P	18	" " "	2	932B5410						
P	19	" " " Bracket	4	932A5408	PLATE					
P	20	" " " "	4	932B5408						
P	21	" " " GUIDE	8	932A5260						
	22	" " " "								
	23	"								
P	24	" King Bolt	2	10153SET5		10153SET5				
P	25	" " " Key	2	" " 4		" " 4				
	26	" Safety Chain—To Frame								
	27	" " " " "								
	28									
	29									
P	30									
P	31	TRUCK BOX—Right	4	933B5056	—	—	—	93-682	—	—
	32	" " "								
	33	" " "								
P	34	" " "								
P	35	" " Cap—Right	4	932B5181		—	93-661	—	—	—
	36	" " " "								
	37	" " " "								
	38	" " " "								
P	39	" Pedestal	4	933A5055		—	93-674	—	—	—
P	40	" " Cap	4	932A5175		93-677	—	—	—	—
P	41	" " " Shim	24	"		1"x1 3/4"x9 1/2"	—	—	—	—
P	42	" " " "	24	"		1 1/8"x1 3/4"x9 1/2"	—	—	—	—
	43	" " " "								
P	44	" BOX-INSIDE	2	932A5402		—	93-676	—	—	—
P	45	" Box—Inside	2	932A5402		—	93-676	—	—	—
P	46	" " Cap—Inside	4	932B5173		93-675	—	—	—	—
	47	" Inside Box Spring Center								
P	48	" " Thrust Plate	4	932B5274		—	—	93-728	—	—
P	49	" Journal Brass	9	932A5403	ONE FOR EQUIPMENT	—	—	93-729	—	—
	50	" " " Wedge								
	51									
	52									
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 94—VALVES—DISTRIBUTION								
	1	Piston Valve								
	2	" " Follower								
	3	" " T-Ring								
	4	" " Snap Ring								
P	5	Slide Valve								
P	6	" " Plate	3	942A5049			94-67			
	7	" " Packing Strip	3	"			94-66			
	8	" " " "								
P	9	" " Ring—Mat'l For	3	653H5001	Pot Pattern		65-86			
P	10	" " Spring	3	#3						
	11									
	12									
	13	VALVE STEM								
P	14	" " Crosshead	3	942A5069			94-6			
P	15	" " " Guide	3	942A5068			94-7			
P	16	" " " " Plate	6	"			94-8			
	17	" " " " Gibs								
	18									
P	19	VALVE YOKE	3	942B5061		942B5061				
	20	" " Block								
	21	" " Key								
P	22	VALVE STEM PACKING	3 SET	GARLOCK						
	23	Packing Rings								
	24	" Spring Washer								
	25	" Swab Cup								
	26	" Vibrating Cup								
	27	" Follower	3	652A5016	Stick Brass.					
P	28	" Stuffing Box	3	652A5005			65-38			
P	29	" " " Gland	3	652B5011			65-144			
	30	" Spring								
P	31	" Studs, Valve Stem	6	7738 SET 9						
	32									
	33	GROUP 95—WHEELS AND TIRES								
P	34	Wheel	8	953F5006			95-14-A			
P	35	Tire	8	3408	SEC. #5					
	36	Hub Plate								
	37									
	38									
	39	GROUP 96—WHISTLE AND RIGGING								
P	40	WHISTLE	1	5" C.I. CHIME	PURCHASED					
	41	" Bowl								
	42	" Bell								
	43	" Valve								
	44	" Gland								
	45	" Nut								
	46	" Diaphragm								
P	47	" Lever	1	962A5010		962A5010				
	48	" Elbow								
	49	" Rigging								
P	50	WHISTLE Hand Lever	1	A-11149		111-F-10				
	51	" " " Fulcrum								
	52	" Rod								
P	53	" Bell Crank	1	A-11149		111-F-11				
P	54	" Rod Thimble	1	122A5021			12-19			
	55	" " " Washer								
	56									
	57	GROUP 99—MISCELLANEOUS								
	58	SPEED RECORDER RIGGING								
	59									
	60									
	61									

CLASSIFICATION OF DRAWINGS

GEARED LOCOMOTIVE

Group No.	TITLE
10	Ash Pan and Oil Pan
11	Axles
12	Bell and Ringer Blow-off Cock—See 26 Blower Pipe Elbow—See 63
13	Boilers
14	Boiler Details and Attachments—Tubes and Flues. Boiler Checks—See 55
15	Bolts and Nuts, Studs, Pins and Bushings Boxes, Shay Engines—See 93
18	Brackets, Air and Steam Gauge Brackets, Shay Cylinder, Steam and Cylinder Bottom Brackets
20	Brake Equipment, Foundation, All Brake Equip- ment, Engine and Tender Brick Arch—See 45
21	Bumpers and Details By-pass Valve—See 34
22	Cabs
23	Cab Details, Apron, Brackets, Door Fixtures, Ven- tilator, etc. Cab Handle—See 53 Cab Lamp—See 54 Cab Tool Box—See 23 Cab Turret—See 78 Chafing Plate—See 48 Cinder Valve and Pipe—See 75 Clearances—See 98 Coal Pusher—See 88
26	Cocks and Valves, Cylinder and Blow-off Cocks, Globe Valves
27	Cocks and Valves, Gauge, Water and Special
28	Cock Rigging Connecting Rods—See 72 Coupler, Engine—See 37 Coupler, Tender—See 37
29	Crank Pins and Details
30	Crossheads, Arm, Pin, Key and Shoes Crossties—See 48
31	Cylinders and Barrel Bushings
32	Cylinder and Steam Chest Heads and Covers, Steam Chests and Bushings
34	Cylinder By-pass, Relief, Vacuum and Drifting Valves
35	Die Work—Flanging Dies
36	Dome—Cap, Casing and Ring
37	Draw-Gear, Engine, Coupler, Uncoupling Rigging Front Buffers, Drawbars, Safety Chains and Bars All Drawgears F and B Drawgear, Tender—See 37 Draft Pipe—See 75 Dry Pipe—See 91
39	Eccentrics, Cranks, Straps and Rods Engine Truck—See 93
42	Erecting Cards—Elevations
43	Erecting Cards—Cross Sections
44	Exhaust Pipe and Nozzles Expansion Pad, Knee and Plate—See 48 Feed Water Attachments—See 55
45	Fire Door, Fire Brick and Tubes, Smoke Consumer Fire Box Ring—See 14 Fire Extinguisher—See 64
48	Frames and Details
49	Gauges, Templates and Jigs
50	Guides, Yoke and End
51	Grate Arrangement
52	Grate Details Hand Holes—See 66
53	Hand Rail and Steps, Engine and Tender
54	Headlights and Signal Attachments, Lamps, Elec- tric Wiring, Builders License and Number Plates
55	Injectors, Boiler Checks and Strainers Keys—See 15

Group No.	TITLE
57	Lagging and Jacket Lamps—See 54
58	Link Motion Mud Drum—See 14 Number Plates—See 54
59	Oil and Grease Cups, Lubricator and Bracket, Oil Can Holder, Flange Lubricator
60	Oil Burning Attachments—Engine Oil Burning Attachments, Tender—See 82
61	Painting, Lettering and Numbering—Photo
62	Pilot and Snow Plows
63	Pipe Fittings and Clamps, Air, Steam, Water and Lubricator Pipe Fittings
64	Piping Arrangements, Engine and Tender, Air Brake, Cooling, Oil Heater, Sprinkler and Steam Heat Piping
65	Piston and Rod, Extensions, Rod Packing
66	Plugs, Hand Holes and Washout Push Pole Pocket—See 21
68	Reverse Lever, Screw and Pneumatic Gears
69	Reverse Shaft and Reach Rod
70	Rocker and Box
71	Running Boards & Brackets, Side and Deck Sheets
72	Rods—Connecting and Stubs Safety Valves—See 78
73	Sand Box, Sanders and Rigging Side Sheet, Cab—See 71 Signal Attachments—See 54
74	Shafts—Crank, Line, Square, Crank, Counterbal- ance, Couplings, Brasses, Pinions, Gears, etc.
75	Smoke Box Arrangement, Front and Door, Smoke Stack and Extensions, Smoke Box Braces Smoke Consumer—See 45 Speed Recorder—See 99
76	Springs Sprinkler—See 64 Steam Chests—See 32
78	Steam Gauge, Safety Valve and Turrets Steam Heat—See 64
79	Steam Pipes and Tee Heads Steps—See 53
80	Stoker and Details, Engine and Tender
81	Superheater, Header and Details Superheater Flues—See 14
82	Tank Valves—Oil and Water, Handle, Well, Goose Neck, Strainer, Hose
85	Tender Frames
87	Tender Deck, Tool Box
88	Tender Tank—Water and Oil, Filling Hole, Tank Funnel, Coal Gate, Coal Pusher Tender Truck—Shay Engines—See 93
91	Throttle and Dry Pipe—Lever, Supports, Sleeves Tires—See 95 Tool Boxes, Engine—See 23 Tool Boxes, Tender—See 87
92	Tools
93	Trucks and Details, Shay Engine, including Boxes and Bearings Tube Setting—See 14 Turret, Safety Valve—See 78 Turret, Air—See 20
94	Valves, Distribution—Stems, Rods, Valve Rod Crosshead and Packing Valve Rod Crosshead Guide—See 94 Waist Sheets—See 48
95	Wheels and Tires—Driving Engine, Truck, Trail- ing, Tender Wheels
96	Whistle and Rigging
97	Preliminary Designs and Propositions
98	Clearance and Wheel Base Diagrams
99	Miscellaneous

